JOURNAL

OF THE

WASHINGTON ACADEMY OF SCIENCES

BOARD OF EDITORS

C. LEWIS GAZIN
U. S. NATIONAL MUSEUM

JAMES H. KEMPTON
U. S. BUREAU OF PLANT INDUSTRY

RAYMOND J. SEEGER
GEORGE WASHINGTON UNIVERSITY

ASSOCIATE EDITORS

LEWIS V. JUDSON PHILOSOPHICAL SOCIETY

H. H. T. JACKSON BIOLOGICAL SOCIETY

JASON R. SWALLEN
BOTANICAL SOCIETY

AUSTIN H. CLARK ENTOMOLOGICAL SOCIETY

GEORGE TUNELL
GEOLOGICAL SOCIETY

T. DALE STEWART ANTHROPOLOGICAL SOCIETY

HORACE S. ISBELL CHEMICAL SOCIETY

PUBLISHED MONTHLY

BY THE

WASHINGTON ACADEMY OF SCIENCES
450 AHNAYP ST.
AT MENASHA, WISCONSIN

Entered as second class matter under the Act of August 24, 1912, at Menasha, Wis.

Acceptance for mailing at a special rate of postage provided for in the Act of February 28, 1925;

Authorised January 21, 1933

Journal of the Washington Academy of Sciences

This JOURNAL, the official organ of the Washington Academy of Sciences, publishes: (1) short original papers, written or communicated by members of the Academy; (2) proceedings and programs of meetings of the Academy and affiliated societies; (3) notes of events connected with the scientific life of Washington. The JOURNAL is issued monthly, on the fifteenth of each month. Volumes correspond to calendar years.

Manuscripts may be sent to any member of the Board of Editors. It is urgently requested that contributors consult the latest numbers of the JOURNAL and conform their manuscripts to the usage found there as regards arrangement of title, subheads, synonymies, footnotes, tables, bibliography, legends for illustrations, and other matter. Manuscripts should be typewritten, double-spaced, on good paper. Footnotes should be numbered serially in pencil and submitted on a separate sheet. The editors do not assume responsibility for the ideas expressed by the author, nor can they undertake to correct other than obvious minor errors.

Illustrations in excess of the equivalent (in cost) of two full-page line drawings are to be paid for by the author:

Proof.—In order to facilitate prompt publication one proof will generally be sent to authors in or near Washington. It is urged that manuscript be submitted in final form; the editors will exercise due care in seeing that copy is followed.

Author's Reprints.—Fifty reprints without covers will be furnished gratis to authors of scientific papers. Covers bearing the name of the author and title of the article, with inclusive pagination and date of issue, and reprints, will be furnished at cost when ordered, in accordance with the following schedule of prices.

Copies	4 pp.	8 pp.	12 pp.	16 pp.	Covers
50	0 75	\$1.20	21 50	\$2.00	\$2.00 2.75
100 150	\$.75 1.25	1.90	$\begin{array}{c} $1.50 \\ 2.55 \end{array}$	3.25	3.50
200	1.75	2.60	3.60	4.50	4.25
250	2.00	3.30	4.65	5.75	5.00

Envelopes for mailing reprints with the author's name and address printed in the corner may be obtained at the following prices: First 100, \$4.00; additional 100, \$1.00.

Subscription Rates.—Per volume\$6.	00
To members of affiliated societies; per volume	50
	50

Correspondence relating to new subscriptions or to the purchase of back numbers or volumes of the Journal should be addressed to William W. Diehl, Custodian and Subscription Manager of Publications, U. S. Bureau of Plant Industry, Washington, D.C.

Remittances should be made payable to "Washington Academy of Sciences" and addressed to 450 Ahnaip Street, Menasha, Wis., or to the Treasurer, H. S. Rappleye, U. S. Coast and Geodetic Survey, Washington, D.C.

Exchanges.—The Journal does not exchange with other publications.

Missing Numbers will be replaced without charge provided that claim is made to the Treasurer within thirty days after date of following issue.

OFFICERS OF THE ACADEMY

President: Eugene C. Crittenden, National Bureau of Standards.
Corresponding Secretary: Frederick D. Rossini, National Bureau of Standards.
Recording Secretary: Frank C. Kracek, Geophysical Laboratory.
Treasurer: Howard S. Rappleye, U. S. Coast and Geodetic Survey.

JOURNAL

OF THE

WASHINGTON ACADEMY OF SCIENCES

Vol. 30

DECEMBER 15, 1940

No. 12

BOTANY.—Two new genera of Acanthaceae from Guatemala.¹ E. C. Leonard, U. S. National Museum. (Communicated by William R. Maxon.)

In the large collection of plants procured by Paul C. Standley on the 1939 Sewell Avery Expedition of the Field Museum of Natural History to Guatemala there were a number of interesting specimens of the family Acanthaceae. Represented in this material are two new genera, which are described herewith. One of these includes a species previously placed in the genus *Drejerella*.

Averia Leonard, gen. nov.

Sect. Odontonemineae. Calyx 5-partitus, tubo brevi, segmentis angustis; corolla subregularis, tubo gracili, lobis subaequalibus, obtusis vel rotunda-

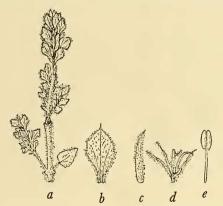


Fig. 1.—Averia serrata Leonard: a, Portion of plant, natural size; b, bract; c, bractlet; d, calyx; e, stamen. (b, c, d, e, twice natural size.)

tis; stamina 2; antherae biloculares muticae, loculis parallelis, subaequaliter affixis; capsula stipitata, parva, 2- vel 4-sperma. Herbae; spicae terminales, densae; bracteae ovatae, imbricatae.

Type species, Drejerella longipes Standley.

This genus is closely related to *Drejerella* Lindau, but differs in its muticous, subequal, parallel anther cells. The anther cells of *Drejerella* are sub-

 $^{\rm 1}$ Published by permission of the Secretary of the Smithsonian Institution. Received June 28, 1940.

superposed, the lowermost strongly calcarate. In both genera the pollen grains are of the "Spangenpollen" type, with a series of longitudinal grooves and an equatorial band of pores (three).



Fig. 2.—Megalostoma viridescens Leonard: a, Portion of branch; b, calyx (both natural size).

The name Averia is given in honor of Dr. Sewell Avery, director of the recent Field Museum expedition to Guatemala above mentioned.

Bracts serrate	 	 A. serrata
Bracts entire	 	 A. longipes

Averia serrata Leonard, sp. nov.

Herba, caulibus erectis vel adscendentibus, subteretibus, glanduloso-hirtellis; lamina foliorum ovata, apice subobtusa, apiculata, basi truncata, ser-